

UNITED STATES PATENT AND TRADEMARK OFFICE





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/662,006		09/14/2000	Patrick K Sullivan	OCEANIT	OCEANIT 9060	
20350	7590	04/17/2003				
		TOWNSEND A	EXAMINER			
TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834				MALLARI, PATRICIA C		
				ART UNIT	PAPER NUMBER	
				3736	<i>.</i>	
				DATE MAILED: 04/17/2003	(1)	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Office Action Summary Examin r			W.				
Examin r Patricia C. Mallari - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1 3550). In revert, however, may a reply be timally listed If the period for reply is appelled above, the resolution of 3 CFR 1 3550). In revert, however, may a reply be timally listed If the period for reply appelled above, the resolution of 3 CFR 1 3550). In revert, however, may a reply be timally listed If the period for reply is appelled above, the resolution of 3 CFR 1 3550). In revert, however, may a reply be timally listed If the period for reply is appelled above, the resolution of 3 CFR 1 3550). In revert, however, may a reply be timally listed If the period for reply is appelled above, the resolution of 3 CFR 1 3550). In revert, however, may a reply be timally listed If the period for reply is appelled above, the resolution of 3 CFR 1 3550). In revert the mailing date of this communication, even if timely filled, may reduce any search patrician of the mailing date of this communication, even if timely filled, may reduce any example patricians. Any reply resoluted by the discussion of a contraction for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,4-11.16-18,26,28,30-33,37,39,45,47-56 and 58-75 is/are pending in the application. 4a) Of the above claim(s)		Application No.	Applicant(s)				
Patricia C. Malfari - The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. The period for reply specified above is less than thirty (30) days, and the continuous and the state of the period for reply specified above is less than thirty (30) days, and the continuous and the state of the period for reply specified above is less than thirty (30) days, and the continuous and the state of the period for reply specified above is less than they (30) days, and the continuous and the state of the period for reply specified above is less than they (30) days, and the continuous and the state of the period of the communication. If the period for reply specified above is less than their (30) days, and the continuous and the state of the period of the communication. If the period for reply specified above is less than their (30) days, and the state of the period of the communication of the state of the period of the communication. A prigal replaced the period of the continuous and the state of this communication, even it briefly fleet, may reduce any search against the adjustment. Set of CR 1760. Status Status Status Status Claim (s) 4.9.1.1.16.18.26.28.30.33.37.39.45.47.56 and 38.75 is/are pending in the application. 4a) Of the above claim (s)		09/662,006	SULLIVAN ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Extensions of turn may be available under the provinces of 3 CFR 1.13(6). In no event, however, may a reply be timely field Extensions of turn may be available under the provinces of 3 CFR 1.13(6). In no event, however, may a reply be timely field ### the period for reply septicides above to less than they (30) days, a reply which he statutory minimum of they (30) days, will be considered simely. ### the period for reply specials above to less than they (30) days, a reply which he statutory minimum of they (30) days will be considered simely. #### the period for reply specials above to less than they (30) days, will be shallow precided largely within the same days and the same days and the same days and the same greater of this communication. #### Responsive to communication(s) filed on 3/24/03. #### Responsive to communication(s) filed on 3/24/03. #### Responsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. ### Claim(s) 1.4.11.16-18.26.28.30.33.37.39.45.47-56 and 58-75 is/are pending in the application. ### Application of Claims ### Claim(s) 4.9-51.35.34.56 and 73-75 is/are allowed. ### Claim(s) 4.9-51.35.34.56 and 73-75 is/are al	Office Action Summary	Examin r	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extractors of from may be available under the provisions of 37 CFR 1/30(s), in no event, however, may a reply be timely filed - Extractors of from may be available under the provisions of 37 CFR 1/30(s), in no event, however, may a reply be timely filed - Extractors of from may be available under the provisions of 37 CFR 1/30(s), in no event, however, may a reply be timely filed - If NO period for reply is specified abover, the maximum statutory protective under provisional application is provided abover. The maximum statutory protective under provisional application is provided abover. The maximum statutory protective under provisional application is provided abover. The maximum statutory and the communication, event it limely filed, may reduce any examed patient term adjustment. See 37 CFR 1/74(s). - Status 1) □ Responsive to communication(s) filed on 3/24/03. - Any reply received by the communication is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.4-11.6-18.26.28.30-33.37.39.45.47-56 and 58-75 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. - Sio Claim(s) 3.9-51.53.54.56 and 73-75 is/are allowed. - Claim(s) 3.0.31 and 45 is/are objected to. - Application Papers - Priority and a required in a sobjected to by the Examiner. - Application Papers - The proposed drawing correction filed on							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions from many be available under the communication. If the period for right specified above is less than theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, a right within the statutory minimum of theiry (30) days, and the statutory days are deviced as the statutory within the statutory minimum of theiry (30) days, and the statutory days are deviced as the statutory days and the statutory and the s	·						
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.4-11.16-18.26.28.30-33.37.39.45.47-56 and 58-75 is/are pending in the application. 4a) Of the above claim(s)	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1.4-11.16-18.26.28.30-33.37.39.45.47-56 and 58-75 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 49-51.53.54.56 and 73-75 is/are allowed. 6) Claim(s) 1.4-11.16-18.26.28.32.33.37.39.40.47.48.52.55 and 58-72 is/are rejected. 7) Claim(s) 30.31 and 45 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 14 September 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	1) Responsive to communication(s) filed on 3/24	<u>1/03</u> .					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)	2a)⊠ This action is FINAL . 2b)☐ Th	is action is non-final.					
A) Claim(s) 1.4-11.16-18.26.28.30-33.37.39.45.47-56 and 58-75 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 49-51,53.54.56 and 73-75 is/are allowed. 6) Claim(s) 1.4-11.16-18.26.28.32.33.37.39.40.47.48.52,55 and 58-72 is/are rejected. 7) Claim(s) 30.31 and 45 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 14 September 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 10 Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	3) Since this application is in condition for allows	ance except for formal matters, p	rosecution as to the merits is				
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 49-51,53,54,56 and 73-75 is/are allowed. 6) □ Claim(s) 1,4-11,16-18,26,28,32,33,37,39,40,47,48,52,55 and 58-72 is/are rejected. 7) □ Claim(s) 30,31 and 45 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 14 September 2000 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 10 □ Notice of References Cited (PTO-892) 21 □ Notice of Informal Patent Application (PTO-152)		Ex parte Quayle, 1935 C.D. 11,	403 O.G. 213.				
5) □ Claim(s) 49-51,53,54,56 and 73-75 is/are allowed. 6) □ Claim(s) 1,4-11,16-18,26,28,32,33,37,39,40,47,48,52,55 and 58-72 is/are rejected. 7) □ Claim(s) 30,31 and 45 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 14 September 2000 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10 □ Interview Summary (PTO-413) Paper No(s) 51 □ Notice of Transperson's Patent Drawing Review (PTO-948) 51 □ Notice of Informal Patent Application (PTO-152)	4) Claim(s) <u>1,4-11,16-18,26,28,30-33,37,39,45,4</u>	<u>7-56 and 58-75</u> is/are pending ir	the application.				
6) Claim(s) 1,4-11,16-18,26,28,32,33,37,39,40,47,48,52,55 and 58-72 is/are rejected. 7) Claim(s) 30,31 and 45 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 14 September 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Interview Summary (PTO-413) Paper No(s) 50 Notice of Transperson's Patent Drawing Review (PTO-948) 51 Interview Summary (PTO-152)	4a) Of the above claim(s) is/are withdraw	wn from consideration.					
7) Claim(s) 30,31 and 45 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 14 September 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	5)⊠ Claim(s) <u>49-51,53,54,56 and 73-75</u> is/are allow	ved.					
8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on 14 September 2000 is/are: a) accepted or b objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11 The proposed drawing correction filed on is: a) approved b disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12 The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b Some column and c	6) Claim(s) <u>1,4-11,16-18,26,28,32,33,37,39,40,47,48,52,55 and 58-72</u> is/are rejected.						
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 14 September 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 1) ☐ Notice of Informal Patent Application (PTO-152)	7)⊠ Claim(s) <u>30,31 and 45</u> is/are objected to.						
9		r election requirement.					
10) ☐ The drawing(s) filed on 14 September 2000 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) 5) ☐ Notice of Informal Patent Application (PTO-152)							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 3) Notice of Oraftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	, — · · · · · · · · · · · · · · · · · ·		da by the Eveniner				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)							
12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Draftsperson's Patent Drawing Review (PTO-948)							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)							
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)	•	n priority under 35 U.S.C. & 119/	a)-(d) or (f)				
1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 1 ☐ Interview Summary (PTO-413) Paper No(s) 5 ☐ Notice of Informal Patent Application (PTO-152)							
2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)							
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ★ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ★ The translation of the foreign language provisional application has been received. 15) ★ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ★ Notice of References Cited (PTO-892) 4) ★ Interview Summary (PTO-413) Paper No(s). 2) ★ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ★ Notice of Informal Patent Application (PTO-152)							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s). Notice of Informal Patent Application (PTO-152)	application from the International Bureau (PCT Rule 17.2(a)).						
15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) ☐ Interview Summary (PTO-413) Paper No(s) 5) ☐ Notice of Informal Patent Application (PTO-152)	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)	 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	Attachment(s)						
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informa	• •				

Art Unit: 3736

DETAILED ACTION

Claim Objections

Claim 30 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 73. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim 31 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 74. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim 45 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 75. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/662,006

Art Unit: 3736

Claims 1, 4-11, 16-18, 26, 28, 32, 33, 37, 39, 40, 47, 48, 52, 55, 58, 61-67, and 69-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scanlon et al. in view of Sepponen. Scanlon teaches a sensor pad 12 with an acoustic transducer 14, which may be any pressure and motion sensor. Signal processing and output system 15 processes the output signal 28 from the transducer 14, including FFT analysis, and provides an output 30 that is fed to a display and storage media. More than one transducer can be employed using various array and noise canceling techniques. For example, a reference transducer 132 may be placed at any suitable location acoustically isolated from the chamber containing transducer 14. The difference between the reference 132 output and the main transducer 14 output is the patient's contribution, free of ambient noise. A plurality of transducers 14 may also be placed within the pad for focused or sectional monitoring, where each transducer is monitored individually or selectively or a combined output is monitored. Band pass filtering of the transducer signal 28 by processor 15 can separate heartbeats, breaths, vocalization, and motion, enabling the apparatus to monitor parameters such as heart and respiratory rates and changes in heart rate variability. Sensor pad 12 may be carried on or built into any type of medical transport device, such as a gurney or stretcher (figs.1-4, 15, 16, 22, 23, and 25). Scanlon lacks piezoelectric film as both its transducers.

However, Sepponen discloses a transducer T, which may be piezoelectric PVDF film, fitted to a support S, for sensing the movement and heart rate of a person P (fig. 2). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the transducers of any of the embodiments of the sensor pad of

Art Unit: 3736

Scanlon et al. with the transducer of Sepponen since Scanlon teaches using a pressure and motion sensor, and Sepponen describes such a sensor.

Claims 59, 60, 68, and 72 are rejected as being unpatentable over Scanlon et al. in view of Sepponen as applied to claims 1, 4-11, 16-18, 26, 28, 32, 37, 39, 40, 47, 48, 52, 55, 56, 58, 61-67, and 69-71 above. Scanlon, as modified, describes a sensor pad 12 with a plurality of transducers 14 with the pad but is silent as to the exact number of transducers included within the pad (fig. 3). Scanlon, as modified, also fails to expressly disclose the shape of the transducer. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to include a specific number of 32 transducers in the sensor pad of Scanlon, as modified, because the applicant has not disclosed that the specific number of 32 transducers provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected the invention of Scanlon, as modified, to perform equally well with any number of a plurality of transducers. Therefore, it would have been an obvious matter of design choice to modify the sensor pad of Scanlon et al. in view of Sepponen to obtain the invention as specified in claims 59, 68, and 72.

Additionally, it would have been an obvious matter of design choice to a person of ordinary skill at the time of invention to make the transducers of Scanlon, as modified, rectangular, because the applicant, similarly has not disclosed that the specific shape of the transducer provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would also have expected

Application/Control Number: 09/662,006 Page 5

Art Unit: 3736

the sensor pad of Scanlon, as modified, to perform equally well with transducers of any shape. Therefore, it would have been an obvious matter of design choice to modify the sensor pad of Scanlon et al, in view of Sepponen to obtain the invention as specified in claim 60.

Response to Arguments

Applicant's arguments filed 3/24/03, with regard to the rejection of claims 1, 4-11, 16-18, 26, 28, 32, 33-37, 39, 40, 47, 48, 52, 55, 56, 58, 61-67, and 69-71 under 35 U.S.C. 103(a) over Scanlon in view of Sepponen, have been fully considered but they are not persuasive. The applicant argues that neither Scanlon nor Sepponen contains suggestion or motivation to combine the references. The examiner points out that the suggestion to combine lies in Scanlon, which states that the acoustic transducer 14 is preferably a piezoelectric, electret, or condenser-based hydrophone, but can be any other type of suitable pressure and motion sensing type of sensor (col. 5, lines 20-27). Therefore, since Scanlon teaches that ANY suitable pressure and motion sensor may be used in the inventions set forth within the reference, and since Sepponen teaches that PVDF film is a piezoelectric (responding to mechanical stress) material used to detect movement, ample motivation to combine the two references is present.

Additionally, the applicant argues that even the combination would not yield two piezoelectric sensors. However, Scanlon cites that more than one acoustic transducer can be employed using various array and noise canceling techniques (col. 7, lines 44-64). For example (also see the above rejection), in addition to the primary transducer, include a reference transducer placed at a location to pick up airborne sounds coupling

Art Unit: 3736

to the pad (fig. 16). Because Scanlon also cites that the acoustic transducer may be any suitable sensor and Sepponen teaches that PVDF film is a piezoelectric material, the combination of the two inventions would yield an apparatus containing at least two piezoelectric sensors, each comprising a piezoelectric film, as claimed in claim 1.

Applicant's arguments, see p. 3 of the REMARKS, paragraph 3, filed 3/24/03, with respect to the rejection under 35 U.S.C. 103(a) over Scanlon in view of Sepponen, and further in view of Neukermans, have been fully considered and are persuasive. This rejection has been withdrawn.

Allowable Subject Matter

Claims 49-51, 53, 54, 56, 73, 74, and 75 are allowed.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/662,006

Art Unit: 3736

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia C. Mallari whose telephone number is (703) 605-0422. The examiner can normally be reached on Mon-Fri 9:30 am-7:00 pm (alternate Fri. off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max F. Hindenburg can be reached on (703) 308-3130. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-8117 for regular communications and (703) 305-3590 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

pcm

April 7, 2003 Papiria Mollar ROBERT L. NASSER PRIMARY EXAMINER

Robert & Mason L